Parcel:	G Unit:	ES115 (S0113)
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			Se	ction I: R	eason F	or Evalua	tion (Sum	mary of Fla	igged Data):		
1) K-S Test: Pass/Fail?											
Units Evaluation Flags											
Ac-	-228	Bi-212	Bi-214	Cs-137	K-40	Pb-212	Pb-214	Ra-226	Total		
				2					2	Pass □	Fail (2)
	Days Evaluation Flags										
Ac	-228	Bi-212	Bi-214	Cs-137	K-40	Pb-212	Pb-214	Ra-226	Total		
									0		
2)	Logic	Tests: P	⊥ ass/Fail?		I		L			Pass ⊠	Fall (C)
				samples c	ollecter	on the s	ame day?				
	LOSIC							ted on 07/0	09/2008.	Yes ⊠	No 🛭
	Logic						ame day o		33, 2000.		
	_			mples we			arrie day o	aitei			
				-			vere collec	ted on 07/	09/2008	Yes 🖾	No Li
				after FSS		-		,	,		
Logic Test 3: Were samples collected before they were counted?							53				
Observation:							Yes 🛭	No E			
	Logic	Test 4: \	Were all F	SS sample	s analy	zed withir	2 workin	g days?		Yes ⊠	
		Observ	<b>vation:</b> FS	S samples	were a	nalyzed o	n 07/09/2	008 and 07	7/10/2008.	les 🕰	No E
	Logic	Test 5: \	Nere sam	ples coun	ted wit	hin 2 weel	ks of samp	le collectio	on?		
		Observ	<b>/ation:</b> Sa	mples 01,	03, and	d 09 count	ted zero (0	) days afte	r collection.	Yes ⊠	No 🏻
		-		hrough 0	3, and 1	0 through	1 24 were	counted 1	day after	_	
		collect									
						eported b	y the onsit	te lab the s	ame as the	V F7	a m
mass reported by the offsite lab?  Observation: Offsite lab mass was not reported.							Yes 🗆	No 🖽			
21	Time		lots: Pass			s not rept	nteu.			Pass 🕅	fall D
3)	1111116			s or unus	ual trer	ıds identif	ied?			No 🗵	Yes 🖸
	Bi-21	L4 -	Notes:	.5 01 01103		- Ido Ido Itali				100 23	
			Anomalie	s or unus	ual trer	ds identif	ied?			No ⊠	Yes []
Ac-228 Notes:											
K-40 Anomalies or unusual trends identified?						No ⊠	Yes 🔲				
<u> </u>	Notes:										
4) Historically Significant Site Location: Yes/No?						No 🗵	Yes 🗓				
Was a known radiation cleanup performed at (or near) this site?						No 🗵	Yes 🖸				
If yes, where?  Is the sewer line connected to or downstream from a radiologically-impacted											
building?						No ⊠	Yes 🗍				
If yes, which building?											
5)	5) Allegation: Yes/No?										

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If yes, description:				
		Section II: Evaluations Performed		
1) Other Statistic	cs Results		Pass □ Fail 🗷	
-	Anomalies	or unusual trends identified?	No ⊠ Yes □	
Box Plots	1	o low outliers identified for Ac-228 Final Systematic samples. T d anomalous or unusual.	hese outliers are not	
Normal	Anomalies	or unusual trends identified?	No □ Yes 🗵	
Quantile Plots	i	al Systematic samples display potential characteristics of at lea lata populations for K-40.	ast two slightly	
2) Additional Da	tabase Rev	iew Performed?	No 🗆 💮 🖺	
Review object	ctives:			
1. Investigate	e K-S Test re	sults (2 flags for Cs-137 units).		
2. Review an	d compare	S0115 data with origination trench units' data (TU104, TU105,	and TU113).	
Observations	;;			
were within	the expecte	15 were generally higher than the average Parcel G results, bu d range and were low compared to the removal action objecti cation nor do they raise concerns regarding potential Cs-137 c	ve; The K-S flags do	
	115 are slig	214 data compare very well with TU0105 and TU-0113 data; The htly higher than TU105/TU113 data, but are within the range consistent.		
3) Adjacent Surv	ey/Trench	Unit Review	Pass ⊠ mail ©	
		5, TU110, TU111, TU112, and TU355.		
		t unit's data performed? Yes.		
		ends identified?	No ⊠ Yes□	
		two K-40 data populations appears reasonable when looking a FU105 (a source for ES115) and does not indicate data falsificate		
4) SUPR or FSSR	Review Per	formed? – March 2011 Final SUPR		
Summary of Excavation / Activities	Sampling	Survey Unit 113 is the sum of TU113, excavated soil from ES1 volume of import fill material; which was used for backfill.	15, ES116 and a	
The gamma scan of ES115 identified investigation level. Therefore, six ad		The gamma scan of ES115 identified several measurements a investigation level. Therefore, six additional samples were co sample results identified activity above the release criteria fo concern (ROC).	llected. None of the	
Eighteen (18) systematic samples were collected from ES115 were randomly selected to be analyzed for Sr-90. None of the identified activity above the release criteria for any ROC.				
	Gamma Static Data Not provided in the SUPR. Observations:			
1	Gamma Scan Data Observations: Six bias samples were collected from an apparently geographically-located area where 20 gamma scan measurements were above the 3-sigma investigation lev of 3,020 cpm (total gamma). The maximum result was 3,497 cpm and is documented as being sampled. All six bias samples were included in the report and none exceeded cleanup criteria.			

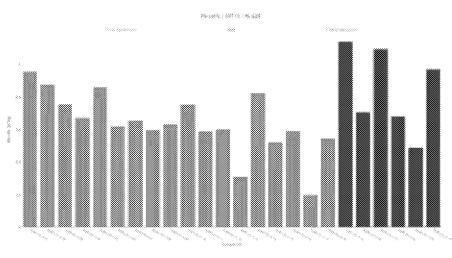
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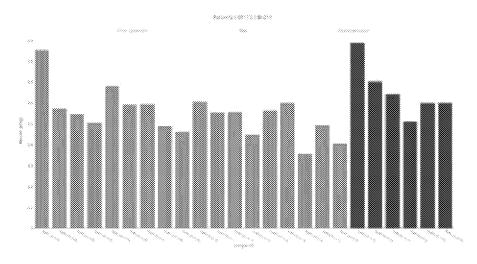
	Dala Evaluation Docu	memalit	,,, and rinding	<u></u>		
Parcel: G	Unit: ES115 (S0113)					
List of Excavation / Overburden Units Used for Backfill	len Units					
Onsite / Offsite Lab Data Comparison:		arable; the	onsite K-40 result	r analysis. The Ac-228 and ts were higher than offsite		
Scan / Static Surveyor Name:	Not provided in the SUPR	•				
Sampler / Surveyor Name:	Not provided in the SUPR	•				
5) RACR or CSR Review Per	formed? – December 2011	Final Parcel	G RACR			
List of Excavation / Overburden Units Created from Excavation:	List of Excavation / ES115: TU104 (4%), TU105 (76%), TU113 (20%) Overburden Units Created from					
found. The SUPR reported	Section III: Conclusioned on the findings of this evalued gamma scan measures performed. This narrativ	luation, evi urements a	dence of potentiand the collection	of biased samples;		
	avoid potentially elevated sa			ation that biased samples		
☐ No Further Action	☐ Reanalyze Archived Samples	☑ Confir		☐ Physical Inspection of Archived Samples		
☐ Other Recommendation	ns:	ı		1		
Additional Information Re	<b>quired:</b> None.					
Completed by: <u>Scott Walnic</u>	ki	Date: <u>C</u>	07/27/2017			
Reviewed by: <u>Alejandro Lop</u>	Date: <u>09/07/2017</u>					
Approved by: Matt Liscio	Date: <u>09/08/2017</u>					
Acronyms:  Ac Actinium (e.g., Ac-228)  B Former Building (or other si Bi Bismuth (e.g., Bi-214)  Cs Cesium (e.g., Cs-137)  CSR Construction Summary Repr  COC Chain of Custody  ESU Excavation Survey Unit  FSS Final Status Survey	K OB Pb pCi/g Ra RACR ROC S SUPR	Potassium (e.g., K-40 Overburden Unit Lead (e.g., Pb-212) picocuries per gram Radium (e.g., Ra-226 Remedial Action Con radionuclide of conco Sewer or Storm Drait Survey Unit Progress	; ;) npletion Report			

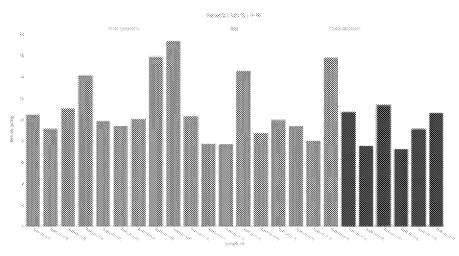
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#### **Time-Series Plots**

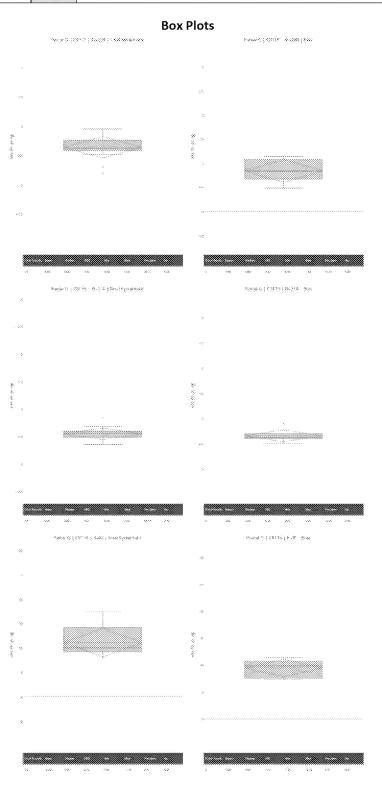






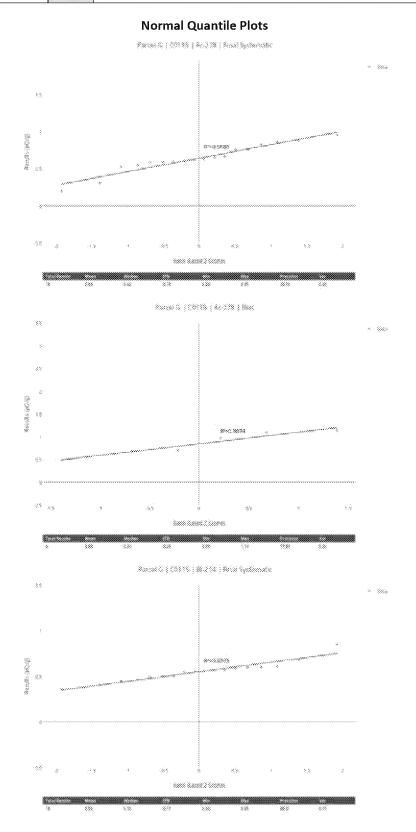
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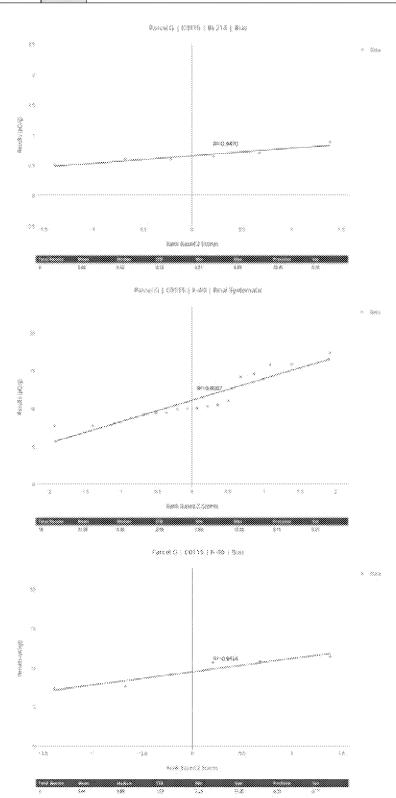
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